

July 2007

(www.k7id.com)

P.O. Box 5222 Coeur d'Alene, ID 83816

## REGULAR CLUB MEETINGS:

### Monday, July 9

Sheprock Building

7:00 to 9:00 P.M.

Speakers: Jerry Hooper

KA7RNX, & John Hollar N7JU

Program: Technician's Guide to  
Operating "HF" & Working DX.

Refreshments: Margaret Telles

### Monday, August 8

Sheprock Building

7:00 to 9:00 P.M.

Speakers: John Hollar Jr N7JU

Program: All Things Cosmic!

Refreshments: Jean Carlson

### Circle your Calendar!!!

July 21, 2007

The KARS Pancake Breakfast  
at Randy Carlson's KB6YAV  
QTH. More information on  
page 8 and 10 in this newsletter.

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## What Now?

John Hollar Jr., N7JU KARS VP

The July KARS program will be a real eye opener. Our objective for this gathering is to outline, with visuals and loads of free software and information on a CD for those who attend, some of the many exciting activities that you now have earned with the extension of your privileges with the new Technician Class License. Those who have upgraded to General Class have even more, but both classes of license have loads of media and modes to explore. Many *no-code* Technicians, now all promoted to full Technician privileges, may have written off the excitement of using Morse code (named for Samuel B. Morse), continuous wave or *cw*, the "code"; all... one in the same. Long a perceived obstacle to many in their quest for higher license grades, it now has become one of the easiest modes of communication to implement and use.



When I was first licensed as a Novice class, 50 years ago this year, we had one year to upgrade or our ham radio career was over. No renewals! The Novice class also had that nasty "N" inserted at the beginning of your call letters that stood as an emblazed symbol on the air of our ineptitude. But of the three HF bands with power restrictions in which privileges were extended to Novices, there still was sufficient bandwidth to muddle around with other Novices and make lots of contacts, fill the mailbox with QSL cards, and earn some "wallpaper" (awards for Worked All States or Worked All Continents). Wow, when I think about each band we got as Novices they were *harmonically* related. That meant if you wanted to operate 40 Meters, and you inadvertently set your transmitter on the wrong band or tuned your transmitter incorrectly, you could *triple-in* to the Novice band on the 21 MHz band. Opps, you might get a "pink slip from the FCC. I can't tell you how many times I answered a CQ on 15 Meters only to discover if I divided his receive frequency by 3, I'd find the "*Lid*" (a ham dummy) calling CQ on 40 Meters. But we survived, even with our **crystal controlled** operation and a power limit of 75-Watts **input!**

New Technicians now have 200-watt privileges on four HF Bands using VFO's. One band, with full mode privileges is **10 Meters**, the most exciting band in Amateur Radio. Where else can you build a dipole antenna, approximately 16 feet in total length (out of that brown lamp cord wire), hang it about 30' in the air,

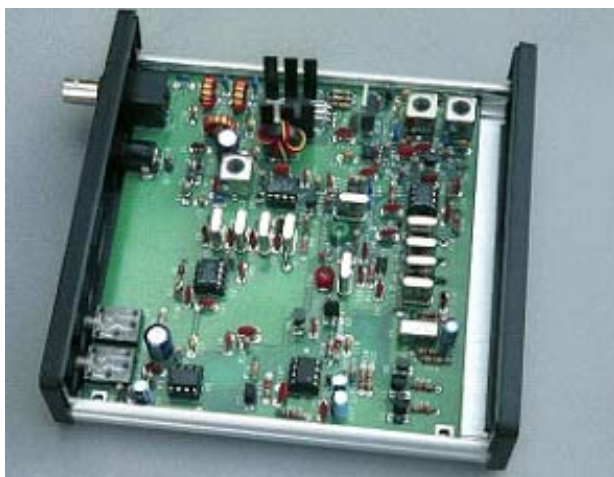
continued on page 2

What Now? continued

and with 5 to 10 Watts, *chat* all over the world using a wide range of digital and SSB (voice) modes. My first 10 Meter DX was *Johannesburg, SA* using 20 Watts. I thought the guy was a *bootlegger* (a ham down the street putting me on) until I received his QSL card in the mail confirming the contact. Wow... was I hooked and I still am after half a century.

We are going to cover, with text and easy to use computer programs on CD: band plans, simple antenna projects, CW, PSK31, HF Packet, Digital Radio, and SSB. We'll look at the importance of designing and using your own QSL card (software included), keeping logbooks (not a requirement but nice to have when you *re-work* a new friend), and building *home-brew* equipment

Several commercial *transceiver* kits, starting as low as \$49.00, and one killer application by **Small Wonders Lab** for a complete 10-Meter PSK-31 transceiver kit for \$100.00 is available and reviewed. There is a guy up the street from me using one and I hear him working DX all the time with a clean crisp PSK-31 signal from a simple 8' vertical antenna.



This unit is easy to build and align with a simple soldering iron and a set of wire cutters. It runs on 12 volts DC and is *locked on* the standard 10-meter PSK-31 frequency. Output power is 4 Watts, more than enough to work the world when the 10-meter band is *open* and subject to skip conditions. We'll have the 25-page manual and all the details contained in our CD. The unit (kit) is shipped, postage paid, for \$100.00.

See you at the KARS July 9<sup>th</sup> 2007 meeting for a **whole new look** at what you can do with your new ham license privileges.

Don't forget the Pancake Breakfast. Check this newsletter and website for more details. – N7JU



# LEAGUE BULLETINS FROM NEWINGTON

JULY 2007

QST de W1AW

ARRL Bulletin 17

From ARRL Headquarters Newington CT - June 1, 2007

To all radio amateurs

ARRL to FCC: Shut Down "Grossly Noncompliant" Ambient BPL Pilot Project

The ARRL has again demanded that the FCC shut down Ambient Corporation's broadband over power line (BPL) pilot project in Briarcliff Manor, New York. On May 21 the FCC called on the BPL equipment maker and system operator to demonstrate it's complying with all terms of the Part 5 Experimental license authorizing the system, or face possible enforcement action. In a May 31 letter to FCC Spectrum Enforcement Division Chief Kathryn S. Berthot, ARRL General Counsel Chris Imlay, W3KD, contended that it's "long past time that the Commission enforce its own rules," and again objected to the Commission's "inexplicable inaction" in the face of evidence the system is noncompliant. Imlay pointed out that the FCC's May 21 letter made no mention of Condition #1 of Ambient's Part 5 Experimental license.

"That condition requires that if any interference occurs, the holder of the authorization will be subject to immediate shutdown," Imlay wrote. "Interference has repeatedly occurred, and it has been witnessed and verified by a member of the Commission's Enforcement Bureau staff. Yet no action has been taken whatsoever to terminate this experimental authorization over a period of more than two and one-half years. This is inexcusable."

Ambient operates the Briarcliff Manor BPL pilot program under Experimental license WD2XEQ. ARRL testing as recent as late May indicated the system is operating outside of the parameters of its FCC authorization.

The League called the FCC's most recent push to get the company to comply with the terms of its Experimental license "too little, too late and an abdication of the Commission's responsibility to protect its licensees from interference from unlicensed RF devices."

"The Commission's obsessive compulsion to avoid any bad news about BPL has clearly driven its multi-year inaction," the League continued. "Had this been any other experimental authorization dealing with any technology other than BPL, the experimental authorization would have been terminated long ago." The League's complaints regarding interference to Amateur Radio communication from the Briarcliff Manor system date back to October 2003 and included supportive technical reports and test results.

As it stands, the League maintained, the FCC should have shut down Ambient's BPL system a long time ago. The ARRL further objected to Ambient's "repeated misrepresentations in its six-month reports claiming that its Briarcliff Manor BPL system meets FCC emission limits."

New measurements done May 24 by ARRL Laboratory Manager Ed Hare, W1RFI, conclusively establish that the Ambient BPL system, in Hare's words, "continues to operate well above the Part 15 emission limits that are stipulated as a condition of its Experimental license." Hare said his latest excursion marked the third time his emissions testing in Briarcliff Manor showed the system to be operating significantly above Part 15 emissions limits.

"The spectral masks in this system intended to protect some radio services from interference work poorly enough in this generation-1 equipment, but when the system is operated at excessive levels, strong interference is an inevitable outcome," he commented. "By operating this system above the Part 15 emissions limits, Ambient is making it impossible for any electric utility to use results from this experiment to reach any conclusions about the technical and commercial viability of BPL."

The ARRL further argued that the Ambient BPL system should not be permitted to continue operating under the radar with an Experimental license instead of under the FCC's Part 15 BPL rules, adopted in 2004. The Briarcliff Manor system does not even appear in the FCC's BPL database, the League noted.

"Causing Ambient to operate in accordance with the BPL rules rather than allowing it to hide behind its experimental authorization would at least be consistent with the Commission's regulatory plan for BPL, however inadequate that plan is in terms of interference avoidance," Imlay's letter concluded.

/EX

## July 2007 West Coast Qualifying Run Schedule Change (Jul 6, 2007)

There is a slight change to the July 2007 West Coast Qualifying Run schedule. The July West Coast Qualifying Run will be handled by Maritime Radio Historical Society station KPH/K6KPH. This station is the same one that sends out the W1AW Field Day Bulletin for the benefit of West Coast amateurs. Look for station K6KPH to transmit the West Coast Run on July 12 at 0400 UTC (local time 9 PM PDT on July 11). The code speeds will remain at 10-40 WPM. The frequencies are: 3590, 7047.5 and 14047.5 kHz. Qualifying Run submissions should still be sent to the ARRL for processing.

# LOGBOOK

## VE Examinations:

### COEUR d'ALENE & KARS

On June 21<sup>st</sup>, your KARS VE team held a special session for a small group of new licensee applicants from **Bonner County**. Our congratulations to Linda and Russell Elliston (calls not assigned as of publication) from Moxie Springs, ID; Todd Krautkremer, from Bonners Ferry, ID, and *Anthony Compton*, the **11 year old, 1<sup>st</sup> Harmonic** of our good friend **Anthony Compton, KE7ADU**, Boundry County **ARES EC and RACES RO**. Big Anthony was very proud of his son, who attributes the *N7JU Technician Audio Study Aid CD* for his impressive score on the exam. Anthony's XLY, Laura, **KE7NKS**, passed her Technician Class at the May 14<sup>th</sup> KARS meeting. The whole family stayed for the KARS NWS Weather Spotter Certification program. Laura's grandfather is **W7ILE** who was very proud at having the only other member of his family become a ham radio operator.

The big news however, if the above accomplishments were not big enough, was **Donna Dunn N7UTL**, whose OM is **Mike Dunn, N7SZY**, KARS member, VE and Amateur Extra (and member of our "98" Repeater committee). Mike is also **EC/RACES RO for Shoshone County** and operates the 146.94 machine in Silver Valley.

Donna *aced* the last of the old General Class Exams. Mike had to recuse himself from the VE proceedings but he was a fairly good chauffer for Donna and hopefully took her to a nice place for dinner to celebrate. **Congratulations Donna for your upgrade to General Class** and as our newest member of KARS.

At the June 9<sup>th</sup>, KARS *Swapmeet* we had the largest turn out of VE's and upgrades so far. Our thanks to VE emeritus **Roy**

Davis, KI7EP, Jerry Hooper, KA7RNX, Mike Dunn, N7SZY, Bob Kesson, K7CGA, Mitch Killebrew KB7BYR, Evelyn Courtney K7EVE and Rex Franklin, W7UZO for helping out so everyone could have *some floor time* at the event. Larry Telles, K6SPP was there before 10:00AM taking photos but had to leave before testing began so he didn't get credit for the session. I'm sure if we had needed him he'd have stayed however. *And the envelope please:* John Watterson, KE7NUA, Ben Anderton, KE7NTZ, Duane Statler KE7NUB, all passed their Technician Class; Allan Campbell, KE7DFT upgraded to General Class, and Tom Cadey, K7PKT and Warren Weber, KD7SKJ passed the Extra Class. Warren will be joining our VE team shortly for Bonner County. KARS congratulates you all for your accomplishments.

**Testing for July will be July 9<sup>th</sup>. Starting at 5:30m PM until 7:00PM** at the Sheprock Building CDA airport by appointment, call N7JU at 208-765-5470 or e-mail [n7ju@arrl.net](mailto:n7ju@arrl.net) for your appointment. Bring a photo ID, a check to the ARRL in the amount of \$14.00, and a copy of your current FCC license if you are upgrading. Renewals and COA's for ARRL members is free.

**Special Licensing Notes:** If you passed the Technician exam before there was a no-code Technician, you actually passed the General Class exam and will now qualify for an upgrade if you have a copy of your old license showing you as a straight Technician Class. The reason is that you would also have had to take the 5 WPM code test. New rules allow an upgrade to General with no new exam if you can prove you were licensed as a Technician. More later if you have questions.

**SPOKANE, WA...** No testing in June and July.

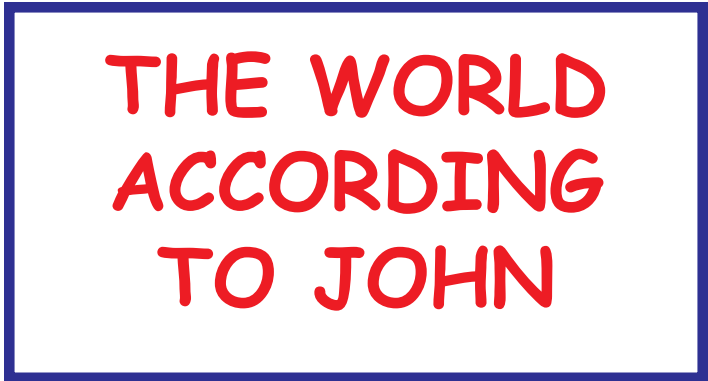
### **SAGLE, ID**

Testing Suspended! Contact John, N7JU. His contact information is listed above. AA7XM Russell Arndt

### **DIRECTIONS TO KARS MEETING:**

Take U.S. Highway 95 to Miles Avenue (Miles is about 1 mile North of Hayden Avenue). Go West on Miles to airport gate. Gate requires access code (call Ed, KARS President at area code 208 699-7743). Once past gate bear left to the Shep Rock Building.

Refreshment Sign-Ups for the rest of the year:  
09/10/07 – Gabbee Perry  
10/08/07 – Bonnie Kesson  
11/12/07 – Marge Miller  
12/10/07 – Everybody (Christmas Pot-Luck)



**July Program: “What Now?”** Explores the practical side of using new privileges and exciting modes of operation for recently upgraded Technician and General class licensees. A feature-packed custom CD, loaded with operational software and the new (N7JU) - GENERAL CLASS AUDIO STUDY GUIDE (used successfully by many Technician applicants earning their first FCC license). But...you've got to attend the KARS program to receive your FREE CD. See you at the July 9th 2007 KARS meeting starting at 7:00PM at the CDA airport.

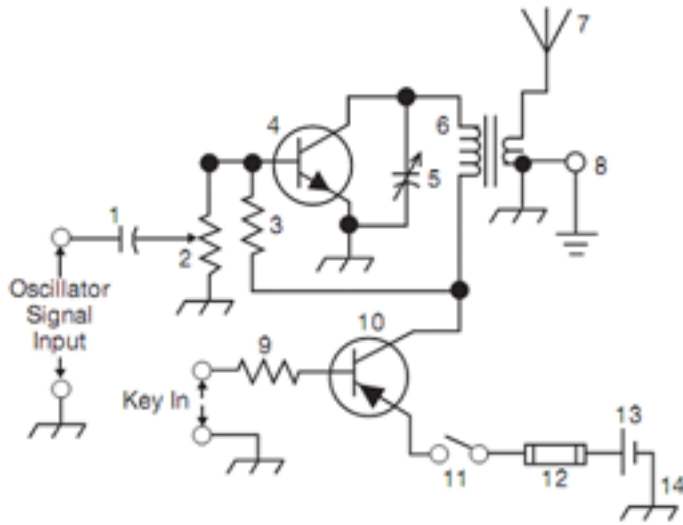
### **NEW General Class Question Pool and Exams Effective July 1<sup>st</sup>. 2007**

The brand new General Class examinations have arrived, the old ones destroyed. The new exams reflect about **475 General Class pool questions**. The questions in this group are more specific and involved with Ohm's law  $I=E/R$  and power formulas  $P=EI$  questions. In addition there are new questions covering new band segments and modes. Although it is possible to memorize most of the power formula answers for any given question it may be a bit easier to actually learn the two formulas in case you forget the correct answer in the heat of an exam. Also the practice exams are likely to be outdated and behind by a couple of months so be sure when taking practice exams check the current July 1<sup>st</sup>. 2007 pool question date. The *N7JU General Class Audio Study Aid* CD unfortunately required 2 audio CD's as the total time for the 10 audio cuts is a about **80 Minutes**, 20 minutes short of a standard audio CD. Each audio segment requires about 8 minutes listening. The new disk containing Technician information and software for the July 9<sup>th</sup> meeting **also contains** the 10 audio cuts in **MP3 format** which uses far less disk space but also unfortunately will only play on an MP3 or computer playback unit. An audio CD however is easily burned from the MP3 format to CDDA using Microsoft's Media Player. We'll discuss this process at the KARS meeting.

Also new in the latest General Class exam is the **one schematic diagram** shown on the following page.

# THE CANDY STORE

A caravan of KARS electronic gurus and hams, hungry for the *Mother Load* of electronic equipment, hardware, antennas, cabinets, microwave systems, power supplies, coax, and bench equipment visited the CandyStore near the Spokane Airport. Lots of quality parts available at 10 cents on the dollar! I mean we're talking about some hamfest quality stuff here. Inside two large storage garages were "Quality Equipment" packed to the ceiling. After the heated haggling was completed we left with two loads of A-1 usable parts and equipment. Our new repeater is the winner from this venture into the world of surplus electronic equipment.



If you can name the **symbol** shown by the respective part number, you'll have 14 questions under wraps. If you can't, then use this (actual General Class) diagram to learn them. Also it would be a good idea to figure out what the diagram, if constructed, would do. Lets try a few: It is obviously a CW transmitter but we have no idea what frequency it will be operating on, as we do not know the Oscillator frequency (*Osc. Signal Input*) or what the output coil transformer resonance frequency is tuned to. We'll be looking at this schematic at the meeting to see if you can name all the parts. It is obvious that **8** is an Earth Ground and that **14** is a circuit (or chassis) ground. Often these two points can be connected together but not always. Notice that **4** and **10** are transistors but which one is an NPN and which one is a PNP? Also **3** and **9** are both resistors but each has a distinctly different function so you need to know what is going on. If you can't handle **11** you'll never be *turned on* by amateur radio! Good luck with the new General Class study program. – N7JU

**COFFEE & DONUTS  
EVERY WEDNESDAY MORNING**



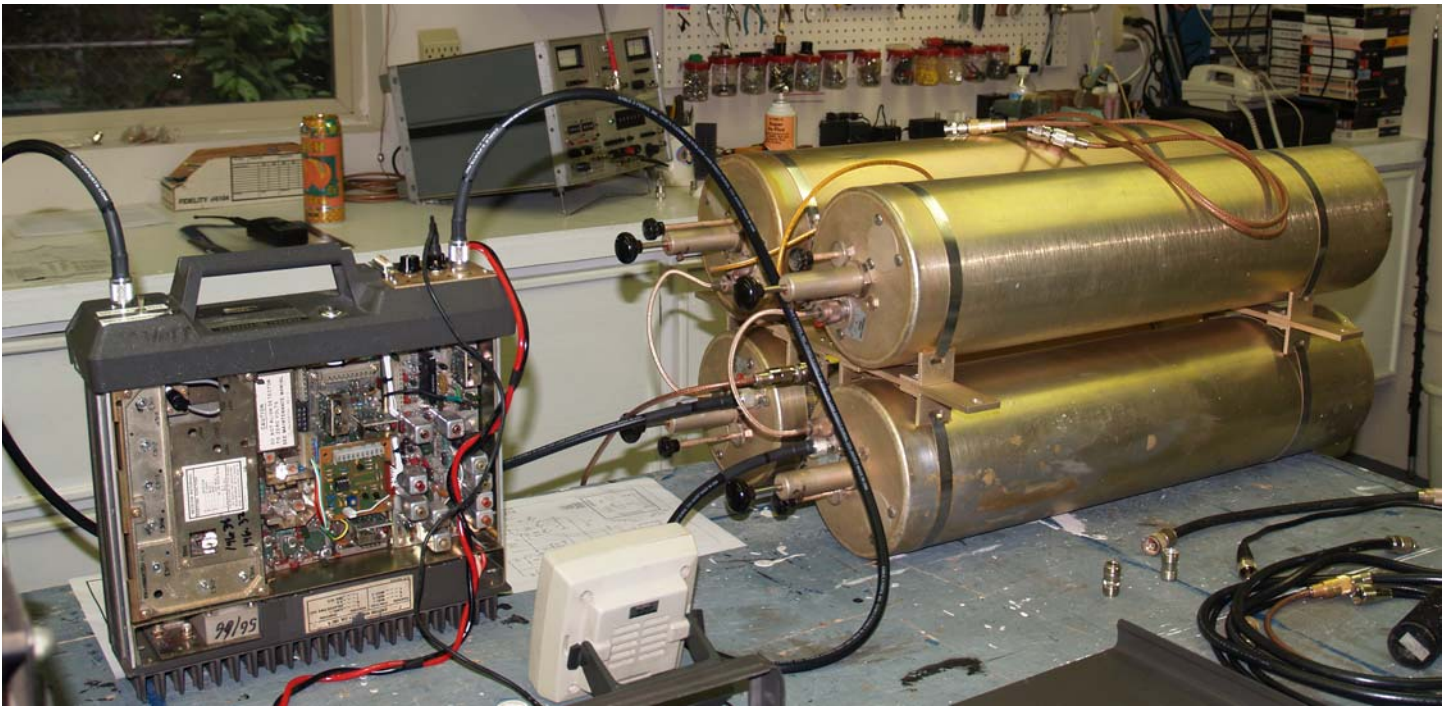
**8:00 A.M.  
TIL  
10:00 A.M.**

**RATHDRUM  
SUPER ONE**

**All problems solved at the table on a  
maximum of two napkins.**

**August 8<sup>th</sup>. KARS meeting:** All Things Cosmic, will cover back yard Radio Astronomy, Sudden Enhancement Disturbances (SIDS), Meteor Burst (Scatter) DXing, Moon Bounce, and yes folks you too can Search for Extra Terrestrial Intelligence (SETI). Presentation by N7JU.





# KARS 98 Repeater Committee Report

First of all my apologies to all who upon hearing the K7ID repeater back on the air assumed we were back on the mountain. Actually we are running the new repeater on a ground plane antenna about 15' off the ground in the back yard here on the East side of CDA. We needed to radiate a bit in order to get the stray **RF** out of the shop so we could perform some desensing tests. So far things are looking fairly good. The TX/RX duplexer transmitter insertion loss is less than **1.5dB**, which is not a good sign. With 25 Watts into the duplexer we are seeing exactly 20 watts out. The output power should actually be 18.75 Watts out. This would suggest that perhaps the duplexer was **peak-tuned** rather than **notched tuned** some time in the distant past. The duplexer has been around for a long time and it does show signs of *broken factory seals* on the tuning screws and slugs. On the receiver side, a similar observation was noted. Although .35microvolts of off-frequency (146.38 MHz.) will break the squelch, we don't see 20 db quieting until around .9 microvolt sensitivity. This parameter is close to a 1.5 dB insertion loss but not exactly on the mark for the TX/RX duplexer specs from the factory that we now have. We might be splitting hairs, but we're inclined to hold off having the duplexer realigned for the moment as it would take another month and cost about \$40.00.

The good news is that there appears to be very little if any desensing between the receiver input and the transmitter output. This is good news and is probably a function of the new interconnecting double-shielded silver cables we had custom made to our frequency along with the tight front end (selectivity) of the receiver and 85 dB noise floor for the transmitter. Marginal signals from folks attempting to hit 98 at our shop actually allowed many dense tests. After a week or two, we are convinced that we are *good to go* for a mountain installation pending a few other matters listed below:

1. A **special cable and relay driver board** must be fabricated (underway) to enable the Controller's Auxiliary Function #1 to switch between two (2) base station antennas: a **main** and a **back-up**. The antenna switcher is a VHF/UHF dowkey® unit fitted with type N Silver connectors and has been installed on the duplexer antenna input connector.

2. The **back-up** antenna is a DB-225, 2.5 db gain single element folded dipole (with a director) for direct mounting to a tower leg. The unit has been tuned but requires a drain hole drilled in the boom, stainless hardware to hold the director in place, and RTV (water-proof) sealing for the coax connections. The big unknown here is the length required to run and dress the 50ohm coax from antenna mounting (*designated spot*) on the tower to the duplexer in the building. I presently have 100' of some new *good stuff* I was going to use for my VHF base station antenna but we could use this if we can't get it somewhere else. The back-up antenna requires a PL-259 and a barrel connector at the antenna end and a Type N male at the input of the antenna relay switch at the duplexer. Thanks to Larry, K6SPP, for donating some brand new silver mil spec

gold plated type N connectors. Now, which one of you *gurus* can properly install a type N connector on a piece of coax? The PL-259 end, if we use my coax, was put on at the factory and it's gold plated.

3. The **main** antenna still up at the site, antenna resonance, feed line impedance, gain directivity, beam tilt, connectors, matching, pattern, and mounting situation **is a complete unknown**. Those of you who have been there will need to assist us as to what we should do. If this "main" antenna system is irreparable, cannot be properly mounted, tuned, or even matched to the duplexer (exactly) it will create more problems than we need. We'll have to remove it and plan for another antenna system. If this is the situation, the back-up antenna may wind up being the main antenna for a time. And a new **main** antenna solution will become our **top priority for the rest of the summer**.

4. A 12v. **Muffin Fan** must be mounted on the heat sink mounting fins of the transmitter for improved heat dissipation during longer transmit periods. We need someone for this project. We have the fan!

5. Three **Molex connectors** (now in-stock) and **shielded cables** must be fabricated to run from the DB-15 repeater accessories socket to several exterior peripherals that will not be ready for several weeks. The first Molex 2-connector controls the antenna relay in 1 above and allows disconnecting the repeater **rf** package and duplexer units should servicing be required. This cable should be completed soon. We have been given two G.E. Custom UHF MVP Radios. The second 4-conductor connector will be **prewired** to accept one of the MVP receivers on the UHF **National Simplex Frequency** of 446.000MHz. Should *auxiliary control* be necessary, this receiver will be separately powered and will respond to a specific CTCSS tone to direct the audio to the RC-1000V control tone input port. Otherwise a simple User command will enable the UHF simplex frequency to the "98" repeater. The second UHF MVP will be a remote **mobile** that will interface with one of three links to be determined. Both these units will require conversion, crystals, and alignment. It will obviously take several weeks to get them up and running for the interface. But since the connectors are all prewired and installed we need only complete the conversions and "plug" them in when they are ready at the repeater site. Cool huh?

6. Emergency back up power from batteries will be facilitated with a West Mountain Radio PG40S

(\$129.00) and can be implemented before the first snow (or when some funds, donations, or advances become available).

7. A hardware wizard is needed. Many of the mounting plates and 19" rack equipment and installations will require special machine screws, lock nuts, straps, U bolts, and weatherized tape for dressing transmission lines. Our worst nightmare would be to get to the site **without** the necessary hardware to complete the initial installation. . We need some help with this project, big time.

As can be seen there **is nothing preventing the mountaintop installation of this system within the next three weeks**. Even though all of our objectives will not be achieved by *one site visit* surely a few more will complete the project while enabling routine operation of the "98" machine as soon as possible. Accordingly, we'll need **work party** volunteers and dates for the installation of what we have. Please drop me an **e-mail** at n7ju@arrl.net and let me know what times/days suit your schedules. – N7JU



1. I have a MFJ 207 10-160 Meter Antenna SWR Analyzer. This is the model without the frequency counter built in. There is an output for a signal to a counter on top through a BNC connector or you can use a receiver to get your frequency close.

These sell new for \$99 and I would take \$49. It is in like new condition and includes the BNC cable and a copy of the manual.

2. I have a Butternut HF2V vertical antenna (80-40 meters). See this at [WWW.bencher.com](http://WWW.bencher.com). Sells new for \$299.95. My price is \$75. It is in good condition and includes the manual. This antenna requires a non-resonant radial system to be efficient.

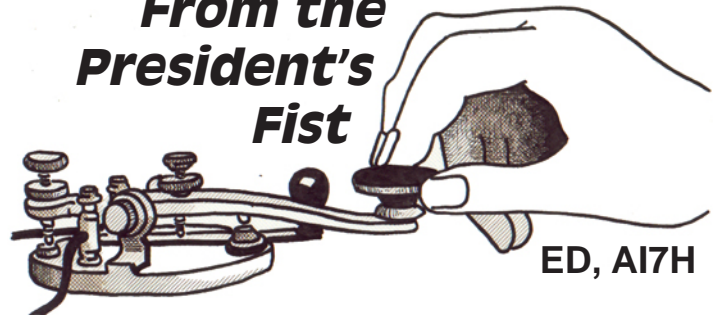
Thank you, Tom, NI7W (208) 772-0907

p.s. A \$5.00 donation per item sold would be willingly granted to the club to show this member's gratitude if the item sells through this newsletter.

# FIELD DAY 2007 FROM THE MOUNTAINS OF IDAHO



## From the President's Fist



### Take A Minute To Enjoy Our Hobby

Greetings to Club members and friends,

I am pleased to report that as of this writing, our Club membership has swelled to 90. We are so pleased to welcome almost 30 new members to the Club over the last 18 months. Is it because of the excellent programs? The convenient Ham Testing program? A groundswell of new Ham activity because Morse Code has been dropped from the exams? Or maybe it is the excellent social opportunities, like the annual Pancake Breakfast to be held on 07/21, or the Ice Cream social, which will be held in August.



Whatever the reason, we're happy to have all of our new members. This is also an opportunity for all of us 'experienced Hams' (aka "old guys") to continue being "Elmer" to the newer Hams. Be sure and introduce yourself to the newer people at our Club events, and ask if they need a hand getting started up in our great hobby. It's a great accomplishment for both the New Ham and his / her "Elmer" to get a new station on the air. Seems to me that's one of the most enjoyable parts of Ham Radio.

73 to all,  
Ed Stuckey, AI7H, Club President

## KARS PANCAKE BREAKFAST

The annual KARS Pancake Breakfast will once again be hosted by Randy Carlson (KB6YAV), YL Jean (KD7RVY), with assistance from son Eric (KD7RVZ), on Saturday, July 21, from 8 - 11AM. The Carlsons will graciously open their home (located at 2601 Morningstar, Hayden) to all KARS pancake consumers. A donation of \$3/person (to defray the cost of food) is accepted. Proceeds exceeding expenses are deposited in the Club treasury. Please RSVP (so attendance can be estimated) by 07/18, directly to Randy (kb6yav@cet.com). A map is located on page 10 of this newsletter and will be on the website after our July 9th meeting.





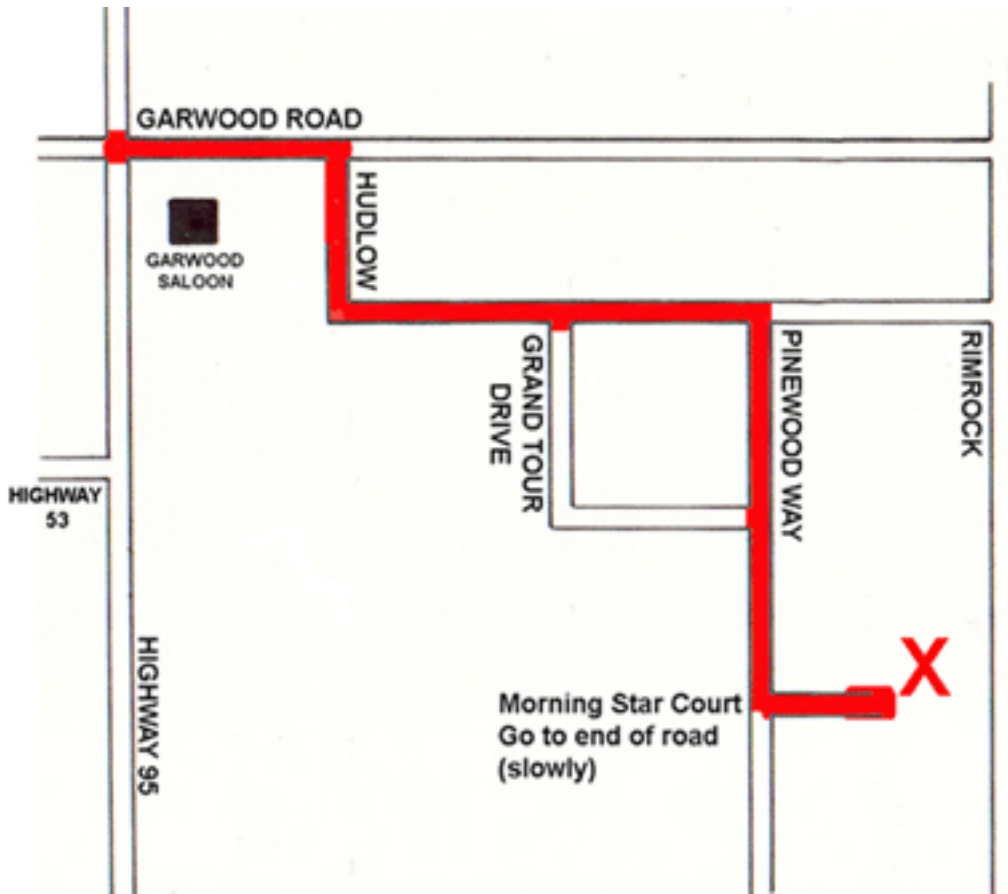
**2007 KARS SWAPMEET**



**FIRST PLACE WINNER**

KARS member John Weir, K7JSW, of Post Falls, ID. had the winning ticket for the 2007 KARS swapmeet door prize. Presenting the Yaesu FT847D all band transceiver was swapmeet chairman Jim Monroe, N7ESU. Perhaps the prize will wind up in Cathy's, KE7GBP hands when the Weirs, get home.

Photo by John, N7JU



**KARS  
PANCAKE  
BREAKFAST  
MAP**

**FIELD DAY 2007 WITH  
THE SPOKANE  
DX CLUB**



# Kootenai Amateur Radio Society (KARS) YEAR 2007 MEMBERSHIP APPLICATION

New Member: \$12.00  Renewal: \$12.00  Family Membership: \$18.00  
 Information Update Only

**New! Two year membership Rates:**

New Member: \$22.00  Renewal: \$22.00  Family Membership: \$33.00

## ARE YOU AN ARRL MEMBER? YES NO ( Please Circle One)

CALLSIGN: \_\_\_\_\_ CLASS: \_\_\_\_\_ EXPIRATION: \_\_\_\_\_

FIRST NAME: \_\_\_\_\_ M.I. \_\_\_\_\_ LAST NAME: \_\_\_\_\_

ADDRESS1: \_\_\_\_\_

ADDRESS2: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_ - \_\_\_\_\_

PHONE NUMBER: (\_\_\_\_) \_\_\_\_\_ **OK TO PUBLISH? YES/NO (CIRCLE ONE)**

EMAIL ADDRESS: \_\_\_\_\_@\_\_\_\_\_

**OK TO PUBLISH EMAIL ADDRESS? YES NO (CIRCLE ONE, PLEASE)**

**DELIVER NEWSLETTER VIA: EMAIL? OR U.S. MAIL? (CIRCLE ONE, PLEASE)**

**NOTE: IF THIS IS A FAMILY MEMBERSHIP, (All members with the same address),  
PLEASE COMPLETE THE FOLLOWING SECTION FOR YOUR FAMILY.**

NAME: \_\_\_\_\_ CALL: \_\_\_\_\_ CLASS: \_\_\_\_\_

NAME: \_\_\_\_\_ CALL: \_\_\_\_\_ CLASS: \_\_\_\_\_

NAME: \_\_\_\_\_ CALL: \_\_\_\_\_ CLASS: \_\_\_\_\_

NAME: \_\_\_\_\_ CALL: \_\_\_\_\_ CLASS: \_\_\_\_\_

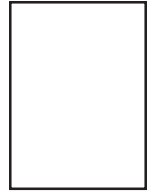
NAME: \_\_\_\_\_ CALL: \_\_\_\_\_ CLASS: \_\_\_\_\_

*RETURN THIS FORM WITH YOUR DUES, (CASH OR CHECK), TO THE KARS TREASURER,  
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***PASS THIS ON TO A FRIEND!!!***

**KOOTENAI AMATEUR RADIO SOCIETY**  
**P.O. Box 5222**  
**Coeur d'Alene, ID 83816**



**Packet Net:** The 1st. & 3rd. Thursday of the Month, at 19:30 hours on 145.510 simplex.

## 2007 CLUB OFFICERS

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## Notice

Propagation is published monthly by the Kootenai Amateur Radio Society (KARS). The club is located in Coeur d'Alene, Idaho and serves the North Idaho and the Spokane, Washington areas.

All opinions expressed in this newsletter are those of the individual contributors and not the radio club as a whole.

KARS operates a voice repeater on 146.98 and a packet repeater on 145.510 Mhz.

Anyone interested in Amateur Radio is welcome to join. Dues are \$12.00 (individual) and \$18.00 for a family membership. Contact the Treasurer if you wish to join.

If you know of anyone interested in joining KARS, you can notify the newsletter editor as to that parties email address. A copy of this newsletter will be send with no obligation to join.

Material can be submitted for publication in Propagation. The deadline for articles, etc., is the 25th of each month for the following month's issue.